FREEWAVE PLUS

USER MANUAL

VELLO™

INTRODUCTION

Thank you for choosing the Vello FreeWave Plus Wireless Remote Shutter Release. This device triggers your camera in either wired or wireless mode, allowing you to trip the shutter without disturbing the camera. It's ideal for taking pictures of subjects that are difficult to approach, such as wildlife. It also eliminates vibrations caused by pressing your camera's shutter release button during macro, close-up, and long-exposure photography. The four-second delay function is great for self-portraits.

The FreeWave Plus does not require line-of-sight alignment, as its radio waves pass through and around objects such as walls, windows, and floors. You can even trigger your camera around corners.

The FreeWave Plus uses the 2.4GHz wireless frequency for extended range and reduced interference.

Your Vello FreeWave Plus Wireless Remote Shutter Release Kit contains:

Wireless Transmitter
Wireless Receiver
Camera Release Cable
4 AAA Batteries

KEY FEATURES

2.4GHz Radio Frequency: Reduced interference and improved wireless signal quality.

Extended Range: up to 100m (320 ft.)

16 Possible Channels: One transmitter can trigger multiple receivers.

Built-in Antenna: Destruction-proof internal antenna.

Dual-function Release: Press halfway to focus; press fully to trigger shutter.

Delayed Release: Four-second delay function gives you extra time to get in position.

Multi-exposure: Take multiple shots with one press of the trigger.

Long Exposure: Control the length of the exposure remotely.

Multi-function: Trigger your camera wirelessly or wired. Wired triggering works even if the battery is dead or missing.

Versatile: One receiver works with dozens of camera models. Just swap out the camera release cable.

LED indicators: Confirm pre-focus and exposure during wireless mode.

BEFORE YOU BEGIN

Set the DIP switch located in the battery compartment of the Transmitter and Receiver. The DIP switches set a different radio frequency for each Transmitter/ Receiver pair, so that multiple sets of the FreeWave Plus can be used simultaneously.

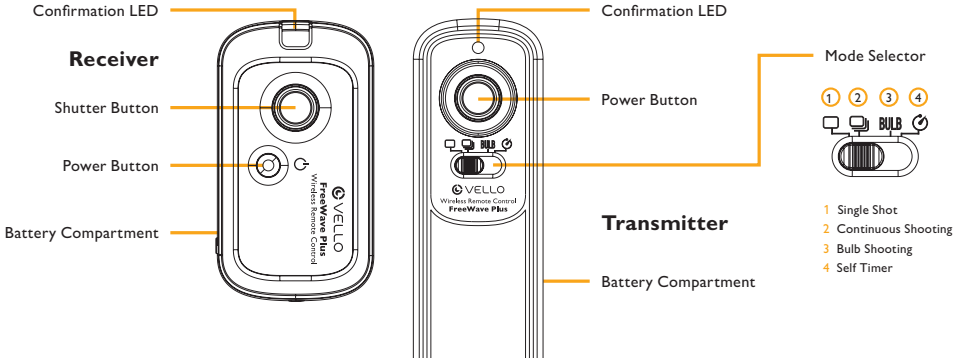
You can use a pen to set the DIP switches to your desired code. Any combination will work so long as the switches are set identically in both the Transmitter and Receiver of a single FreeWave Plus set. A total of 16 different combinations can be selected.

Insert 2 AA batteries into both the Transmitter and Receiver.

SAFETY WARNINGS

- There are no user-serviceable parts inside the devices. Do not attempt to disassemble or perform any unauthorized modification.
- Do not operate the FreeWave Plus in the presence of flammable gas or vapors.
- Do not handle with wet hands or immerse in or expose to water or rain. Failure to observe this precaution could result in fire or electric shock.
- Keep out of the reach of children. This device contains small parts which may pose a choking hazard.
- Observe caution when handling batteries. Batteries may leak or explode if improperly handled. Use only the batteries listed in this manual. Make certain to align batteries with correct polarity.
- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the batteries when leaving the product unattended for prolonged periods or when no charge remains.
- Do not use or leave the devices in conditions of extreme heat, severe cold, or high humidity.
- Turn off the camera's power before inserting or removing the remote cord.
- Dispose used batteries, packaging, and old devices in accordance with appropriate local environmental regulations.

FEATURES DIAGRAM



POWERING ON & OFF

Turn ON the Receiver: Press and hold the **Power** button for 2 seconds. The LED will flash red at 2 second intervals to indicate that the receiver is working.

To power down after use, Press and hold the **Power** button for 2 seconds. The LED will flash 4 times in quick succession, to indicate that it is powering off.

There is no need for a power button on the transmitter. The Transmitter is always ready to fire and uses power only when you press the focus/shutter release button.

Press and hold the Power button for 2 seconds to power up the Receiver.

MOUNTING THE RECEIVER

If using the FreeWave wirelessly, mount the Receiver on your camera's hot shoe, facing forwards or backwards.
If your camera's hot shoe is in use, you can use an accessory shoe to attach the Receiver to your camera, tripod, or other suitable surface.

With your camera and Receiver OFF, connect the shutter release cable's sub-mini plug end to the Receiver, and the other end to your camera's shutter release jack. Power up your camera and Receiver.

SINGLE SHOTS | WIRELESS

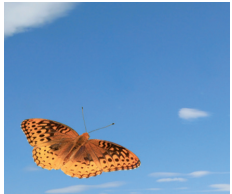
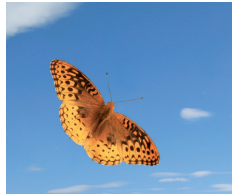
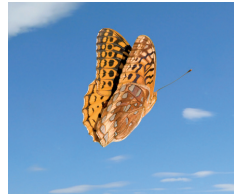
1. Turn on the Receiver by pressing and holding the **Power** button until the LED lights up.
2. Set the Transmitter to **Single Shot**.
3. Set your camera to the Single Shot setting.
4. Press and hold the Transmitter's shutter release button halfway to wake or focus your camera (if set to Auto Focus).The LED will turn green.
5. Fully depress the shutter button on the Transmitter. The LED will turn red and the shutter will be triggered.

FOUR SECOND DELAY | WIRELESS

1. Turn on the Receiver by pressing and holding the **Power** button until the LED lights up.
2. Set the Transmitter to **Self Timer** mode.
3. Set your camera to the Single Shot setting.
4. Press and hold the Transmitter's shutter release button halfway to wake or focus your camera (if set to Auto Focus). The LED will turn green.
5. Fully depress the shutter button on the Transmitter. The LED will turn red and the shutter will be triggered after a four-second delay.

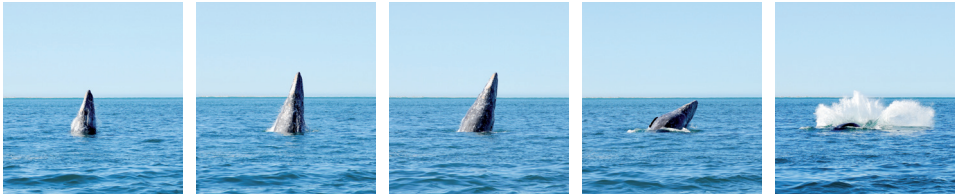
CONTINUOUS MODE | WIRELESS

1. Turn on the Receiver by pressing and holding the **Power** button until the LED lights up.
2. Set the Transmitter to **Bulb mode**.
3. Set your camera to the Continuous Shots setting.
4. Press and hold the Transmitter's shutter release button halfway to wake or focus your camera (if set to Auto Focus).The LED will turn green.
5. A full press of the Transmitter's shutter button will trigger the camera to take continuous photos until you half press or fully press the shutter button again.

CONTINUOUS MODE AT 1 SECOND INTERVALS | WIRELESS

1. Turn on the Receiver by pressing and holding the Power button until the LED lights up.
2. Set the transmitter to **Continuous Shooting**.
3. Set your camera to the Single Shot setting.
4. Press and hold the Transmitter's shutter release button halfway to wake or focus your camera (if set to Auto Focus). The LED will turn green.
5. A full press of the Transmitter's shutter button will trigger the camera to take continuous photos at 1 second intervals until you release the shutter button.



BULB MODE (LONG EXPOSURE) | WIRELESS

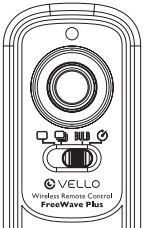
1. Turn on the Receiver by pressing and holding the Power button until the LED lights up.

2. Set the Transmitter to **Bulb Shooting**.

3. Set your camera to the Bulb setting.

4. Press and hold the Transmitter's shutter release button halfway to wake or focus your camera (if set to Auto Focus). The LED will turn green.

5. Fully depress the Transmitter's shutter button. The LED on the Transmitter will flash red and the LED on the receiver will turn solid red. The shutter will remain open until you half-press or fully press the shutter button again.



SINGLE SHOTS | WIRED

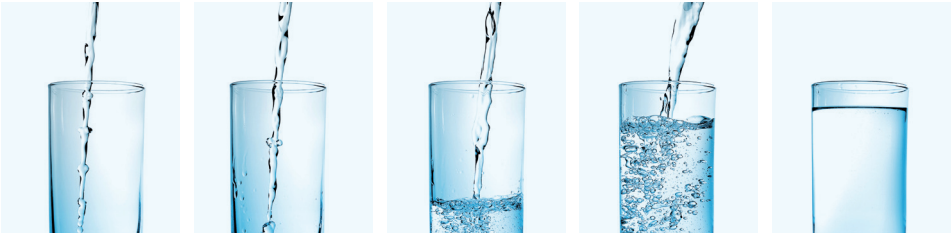
The FreeWave Plus Receiver can also be used as a wired, off-camera shutter release.

With your camera and receiver OFF, connect the shutter release cable's miniplug end to the Receiver and the other end to your camera's shutter release jack. Power up your camera. The Receiver does not need to be on, but because the Receiver does not need power in wired mode, the LED will not light up.

1. Press and hold the Receiver's shutter release button halfway to wake or focus your camera (if set to Auto Focus). The confirmation LED will not display, so be sure to manually focus or allow the camera to Auto Focus without confirmation.
2. Fully press the shutter button on the Receiver. The shutter will be triggered.

CONTINUOUS MODE | WIRED

1. Set your camera to the Continuous Shots setting.
2. Press and hold the Receiver's shutter release button halfway to wake or focus your camera (if set to Auto Focus). The confirmation LED will not display, so be sure to manually focus or allow the camera to Auto Focus without confirmation.
3. A full press of the Receiver's shutter button will trigger the camera to take continuous photos until you release the shutter button.



BULB MODE (LONG EXPOSURE) | WIRED

1. Set your camera to Bulb mode.

2. Press and hold the Receiver's shutter release button halfway to wake or focus your camera (if set to Auto Focus). The confirmation LED will not display, so be sure to manually focus or allow the camera to Auto Focus without confirmation.

3. Press and hold the Receiver's shutter button. The shutter will remain open until the shutter button is released.

CAMERA RELEASE CABLES

The FreeWave Plus includes a Camera Release Cable that enables the remote to work with certain models of cameras. By changing the camera release cable, a single FreeWave Plus Receiver can work with many other cameras as well.

At right are models of Vello Camera Release Cables for the FreeWave Plus and the cameras they support. For these cables, and cables for other camera models, check with your Vello dealer.

RCC-C2 – **Canon** EOS 10D / 20D / 30D / 40D / 50D / 5D / 5D Mark II / 5D Mark III / 7D / 1D / Mark II / Mark IIn /Mark III Mark IV / 1DS / Mark II/ Mark III / 1D X

RCC-N1 – **Nikon** D1 / D1H / D1X / D2 / D3 / D3x / D3s / D2H / D2Hs / D2X / D2Xs / D4 / D200 D300 / D300s / D700 / D800 / D800E **Fuji** S3pro / S5Pro **Kodak** DCS-14N

RCC-C1 – **Canon** EOS 30/ 33/ 50/ 300/ / 60D/ Digital Rebel: (300D) / XT (350D) / XTi (400D) / XSi (450D) / XS (1000D) /T1i (500D) / T2i (550D) / T3 (1100D) / T3i (600D), Powershot: G10, G11, G12, G1 X **Pentax** K100D / K110D / K200D / K10D / K20D / K-5 / K-7 / *ist DS / DS2 / DL2 / DL / D **Contax** N 645 **Samsung** GX-1S / GX-1L / GX-10 / GX-20 / NX Series

RCC-S1 – **Sony** A100 / A200 / A290 / A300 / A320 / A350 / A380 / A390 / A500 / A500 / A560 / A580 / A700 / A850 / A900 / SLT A33 / A55 / A35 / A65 / A77

RCC-O1 – **Olympus** E520 / E510 / E420 / E410 / E400 / E450 / E620 / SP-570UZ / SP-560UZ / SP-550UZ / SP-510UZ / XZ-1 / Pen: E-PL2 / E-P2 / E-PM1 / E-PL3 / E-P3 / OM-D: EM-5

RCC-O2 – **Olympus** E-1/ E-3/ E-5

RCC-N3 – **Nikon** D70s / D80

RCC-N2 – **Nikon** D90 / D3100 / D3200 / D5000 / D7000 / D5100

RCC-P1 – **Panasonic** DMC-G1 / DMC-G10 / DMC-G2 / DMC-GF1 / DMC-GH1 / DMC-GH2 / DMC-L10 / DMC-L1 / DMC-FZ100 / DMC-G3 / DMC- FZ150 / DMC - GX1

SPECIFICATIONS & TROUBLESHOOTING

	Transmitter	Receiver
Power	2 x AAA	2 x AAA
Battery Life	3 Years	300 Hours
Channels	16 Channels	
Range	100m (320 ft.) with no obstructions	
Frequency	2.4 GHz	
Confirmation LEDs	2 Color	
Shutter Modes	Single Shot, 4-Second Delay, Continuous, 1-Second Continuous, & Bulb	

Troubleshooting

Problems with the FreeWave Plus can usually be traced to the following most common causes. Perform the following steps to diagnose and correct the problem:

- Check that the shutter release cable is in good condition and is properly connected.
- Make sure that the Receiver is powered on.
- Remove the batteries from the Transmitter and Receiver, and change the channel by rearranging the DIP switches to a different combination, taking care to ensure that both the Transmitter and Receiver are set identically.

FCC COMPLIANCE

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designated to provide reasonable protection against harmful interference in a residential installation.

There is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment ON or OFF, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna;
2. Increase the distance between the equipment and the receiver.

This device complies with Part 15, Subpart B, Class B of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications (including the antenna) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

Limited One-Year Warranty

Vello provides a limited warranty that this product is free from defects in materials and workmanship to the original purchaser under normal use for a period of one (1) year from the original purchase date. Vello's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at its option, of any product which fails during normal consumer use. This warranty does not extend to damage or failure which results from misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, VELLO MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES. INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To obtain a replacement during the time of this warranty please return the defective Item with proof of purchase along with an RMA number to the place of purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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